**Homework 42 FORM A Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Per \_\_\_\_**

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| 1) Use the Subtraction Property: **if a = b, then a - c = b - c**  Given:  Prove:  Statement: Reasoning:   |  |  | | --- | --- | | 1) | 1) Given |   V  T  S  R | |
| 3) Use the Transitive Property:  **if AB ≅ CD and CD ≅ EF, then AB ≅ EF**  **GIVEN:** *m**A = m**B*  *m**C = m**B*  **PROVE:** *A* *C*    Statement: Reasoning :   |  |  | | --- | --- | | 1) *m**A = m**B*  *m**C = m**B* | 1) Given | | 4) Use Vertical Angles:  **Vertical Angle Theorum:** **If two angles are vertical angles, then they have equal measures.**  Given:  Prove:  K  L  M  N  2  1  Statement: Reasoning :   |  |  | | --- | --- | | 1) | 1) Given | |

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| 1. At what point does the line y = -2x + 2 cross the x-axis?  0= -2x + 2 (solve for x) | 2. Solve for x in the following equation:  y = 2x2 + w  0= 2x2 + w |
| 3. What are the roots of the equation x2 - 2x = 12?  (set equal to 0)🡪 0 = x2 -2x -12 | 4. x = {-3, 7} is a solution set for what quadratic equation? |
| 5. A circle has a circumference of 10π centimeters. What is the area of that circle, in terms of π?  A=\_\_\_\_\_\_\_\_\_\_πcm2 | 6. Find the value of y in the figure below:  **x**  **x + y = 180**  **42 + 20 + x = 180 ( solve for x)** |